

Section II  
Soil and Site Information

Construction Materials Table 2  
Hamlin County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ArA: Arvilla-----	85	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.54	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.50
Ba: Badger-----	85	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.14 0.47	Poor Too Clayey Depth to saturated zone	0.00 0.14
BaB: Barnes-----	85	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Fair Low strength Shrink-swell	0.78 0.87	Good	
BbB: Barnes-----	65	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Fair Low strength Shrink-swell	0.78 0.87	Good	
Buse-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Carbonate content	0.46
BbC: Barnes-----	55	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Fair Low strength Shrink-swell	0.78 0.87	Good	

Section II  
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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Buse-----	35	Fair Low content of organic matter Carbonate content Water erosion	0.12  0.46 0.99	Fair Low strength  Shrink-swell	0.22  0.87	Fair Carbonate content	0.46
BcD: Barnes-----	40	Fair Low content of organic matter Carbonate content Water erosion	0.12  0.92 0.99	Fair Low strength  Shrink-swell	0.78  0.87	Fair Slope	0.37
Buse-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12  0.46 0.99	Fair Low strength  Shrink-swell	0.22  0.87	Fair Slope  Carbonate content	0.37  0.46
Svea-----	20	Fair Low content of organic matter Carbonate content Water erosion	0.50  0.97 0.99	Poor Low strength  Shrink-swell	0.00  0.94	Good	
BnA: Barnes-----	75	Fair Low content of organic matter Carbonate content Water erosion	0.12  0.92 0.99	Fair Low strength  Shrink-swell	0.78  0.87	Good	
Vienna-----	15	Fair Low content of organic matter Carbonate content Water erosion	0.50  0.92 0.99	Poor Low strength  Shrink-swell	0.00  0.87	Fair Carbonate content	0.99
BrA: Brandt-----	85	Fair Water erosion	0.90	Poor Low strength Shrink-swell	0.00 0.99	Poor Hard to reclaim	0.00

Section II  
Soil and Site Information

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BrB: Brandt-----	85	Fair Water erosion	0.90	Poor Low strength Shrink-swell	0.00 0.99	Poor Hard to reclaim	0.00
Bs: Brookings-----	85	Fair Low content of organic matter Carbonate content Too clayey Water erosion	0.50 0.97 0.98 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Too Clayey	0.98
BtD: Buse-----	50	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Poor Slope Carbonate content	0.00 0.46
Barnes-----	40	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Fair Low strength Shrink-swell	0.78 0.87	Fair Slope	0.37
BuC: Buse-----	50	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Carbonate content Slope	0.46 0.96
Barnes-----	35	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Fair Low strength Shrink-swell	0.78 0.87	Good	

Section II  
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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BuE: Buse-----	60	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Slope Low strength Shrink-swell	0.00 0.22 0.87	Poor Slope Carbonate content	0.00 0.46
Barnes-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.92 0.99	Fair Low strength Shrink-swell Slope	0.78 0.87 0.92	Poor Slope	0.00
BvD: Buse-----	50	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Slope Low strength Shrink-swell	0.00 0.22 0.87	Poor Slope Carbonate content	0.00 0.46
Lamoure-----	30	Fair Too clayey	0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Too Clayey	0.00 0.99
BxE: Buse-----	50	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Poor Slope Low strength Shrink-swell	0.00 0.22 0.87	Poor Slope Carbonate content	0.00 0.46
Langhei-----	35	Fair Low content of organic matter Carbonate content Too clayey	0.12 0.46 0.95	Poor Slope Low strength	0.00 0.00	Poor Slope Too Clayey Carbonate content	0.00 0.55 0.80

Section II  
Soil and Site Information

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ByC: Buse-----	50	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Carbonate content	0.46
Poinsett-----	35	Fair Low content of organic matter Water erosion Carbonate content	0.12 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.92
ByD: Buse-----	50	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Slope Carbonate content	0.37 0.46
Poinsett-----	40	Fair Low content of organic matter Water erosion Carbonate content	0.12 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Fair Slope Carbonate content	0.37 0.92
Ca: Castlewood-----	85	Poor Too clayey	0.00	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.12	Poor Depth to saturated zone Too Clayey	0.00 0.00
Co: Colvin-----	50	Fair Carbonate content Water erosion	0.80 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Carbonate content	0.00 0.80

Section II  
Soil and Site Information

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Oldham-----	40	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.32	Poor Too Clayey Depth to saturated zone	0.00 0.00
Cu: Cubden-----	60	Fair Carbonate content	0.92	Poor Low strength  Shrink-swell Depth to saturated zone	0.00 0.87 0.91	Fair Depth to saturated zone Carbonate content	0.91 0.92
Badger-----	30	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.14 0.47	Poor Too Clayey Depth to saturated zone	0.00 0.14
Cx: Cubden-----	60	Fair Carbonate content	0.92	Poor Low strength  Shrink-swell Depth to saturated zone	0.00 0.87 0.91	Fair Depth to saturated zone Carbonate content	0.91 0.92
Tonka-----	30	Poor Too clayey  Water erosion	0.00 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.46	Poor Depth to saturated zone Too Clayey	0.00 0.00
Dv: Divide-----	3	Fair Carbonate content  Low content of organic matter	0.46 0.50	Fair Depth to saturated zone	0.91	Fair Hard to reclaim Carbonate content  Depth to saturated zone Rock fragments	0.18 0.46 0.91 0.97

Section II  
Soil and Site Information

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
EgB: Egeland-----	60	Fair Low content of organic matter	0.12	Good		Good	
Embden-----	30	Good		Good		Good	
EmC: Egeland-----	55	Fair Low content of organic matter	0.12	Good		Good	
Maddock-----	35	Poor Too sandy Low content of organic matter	0.00 0.88	Good		Poor Too sandy	0.00
EsA: Estelline-----	85	Fair Water erosion	0.90	Good		Fair Hard to reclaim	0.82
EsB: Estelline-----	85	Fair Water erosion	0.90	Good		Fair Hard to reclaim	0.82
Fa: Fairdale-----	75	Fair Carbonate content	0.92	Fair Shrink-swell	0.87	Fair Carbonate content	0.92
FdA: Fordville-----	85	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.18
FoB: Fordville-----	65	Fair Low content of organic matter	0.12	Good		Fair Hard to reclaim	0.18

Section II  
Soil and Site Information

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Renshaw-----	25	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.86	Good		Poor Rock fragments Hard to reclaim Too sandy	0.00 0.08 0.14
HeA: Hetland-----	85	Poor Too clayey Low content of organic matter Carbonate content Water erosion	0.00 0.50 0.97 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey Carbonate content	0.00 0.97
HeB: Hetland-----	85	Poor Too clayey Low content of organic matter Carbonate content Water erosion	0.00 0.50 0.97 0.99	Poor Low strength Shrink-swell	0.00 0.12	Poor Too Clayey Carbonate content	0.00 0.97
KrA: Kranzburg-----	65	Fair Carbonate content Water erosion	0.92 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.97
Brookings-----	25	Fair Low content of organic matter Carbonate content Too clayey Water erosion	0.50 0.97 0.98 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Too Clayey	0.98
KrB: Kranzburg-----	70	Fair Carbonate content Water erosion	0.92 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.97



Section II  
Soil and Site Information

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Brookings-----	20	Fair Low content of organic matter Carbonate content Too clayey Water erosion	0.50  0.97 0.98 0.99	Poor Low strength  Shrink-swell	0.00  0.87	Fair Too Clayey	0.98
La: La Prairie-----	85	Fair Carbonate content	0.92	Poor Low strength Shrink-swell	0.00 0.94	Good	
Ld: Ladelle-----	85	Fair Low content of organic matter	0.12	Poor Low strength  Shrink-swell	0.00  0.96	Good	
Lm: Lamoure-----	85	Fair Too clayey	0.99	Poor Low strength  Depth to saturated zone Shrink-swell	0.00  0.00 0.87	Poor Depth to saturated zone Too Clayey	0.00 0.99
Lr: Lamoure-----	60	Fair Too clayey	0.99	Poor Low strength  Depth to saturated zone Shrink-swell	0.00  0.00 0.87	Poor Depth to saturated zone Too Clayey	0.00 0.99
Rauville-----	25	Fair Too clayey	0.88	Poor Depth to saturated zone Low strength Shrink-swell	0.00  0.00 0.87	Poor Depth to saturated zone Too Clayey	0.00 0.86

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Lw: Lowe-----	85	Fair Low content of organic matter Carbonate content	0.50 0.68	Poor Depth to saturated zone Shrink-swell	0.00 0.87	Poor Depth to saturated zone Carbonate content	0.00 0.68
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	
Ma: Marysland-----	85	Fair Low content of organic matter Carbonate content	0.12 0.68	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.78 0.99	Poor Depth to saturated zone Hard to reclaim Carbonate content	0.00 0.50 0.68
MbA: Mauvais-----	85	Good		Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.76 0.87	Fair Depth to saturated zone Salinity	0.76 0.88
Mc: Mcintosh-----	50	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.90	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.53 0.87	Fair Carbonate content Depth to saturated zone	0.46 0.53
Badger-----	35	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.14 0.47	Poor Too Clayey Depth to saturated zone	0.00 0.14

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Mn: Minnewaukan-----	85	Poor Too sandy Wind erosion Low content of organic matter Droughty	0.00 0.00 0.50 0.69	Poor Depth to saturated zone	0.00	Poor Too sandy Depth to saturated zone Rock fragments	0.00 0.00 0.88
Mz: Moritz-----	50	Fair Carbonate content	0.92	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.76 0.92	Fair Depth to saturated zone Carbonate content	0.76 0.92
Lamoure-----	40	Fair Too clayey	0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Too Clayey	0.00 0.99
Oh: Oldham-----	85	Poor Too clayey Water erosion	0.00 0.99	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.32	Poor Too Clayey Depth to saturated zone	0.00 0.00
Or: Orthents, Gravelly--	85	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.29	Poor Slope	0.00	Poor Rock fragments Slope Too sandy Hard to reclaim	0.00 0.00 0.14 0.18

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Pa: Parnell-----	85	Poor Too clayey Low content of organic matter Water erosion	0.00 0.12 0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.22	Poor Depth to saturated zone Too Clayey	0.00 0.00
Pm: Playmoor-----	85	Fair Salinity Sodium content	0.88 0.97	Poor Low strength Depth to saturated zone Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Salinity	0.00 0.00
PoB: Poinsett-----	55	Fair Low content of organic matter Water erosion Carbonate content	0.12 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.92
Buse-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Carbonate content	0.46
PsB: Poinsett-----	45	Fair Low content of organic matter Water erosion Carbonate content	0.12 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.92
Buse-----	25	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Carbonate content	0.46

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Waubay-----	20	Fair Water erosion Carbonate content	0.90 0.97	Poor Low strength Shrink-swell	0.00 0.87	Good	
PsC: Poinsett-----	40	Fair Low content of organic matter Water erosion Carbonate content	0.12 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.92
Buse-----	30	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Carbonate content	0.46
Waubay-----	20	Fair Water erosion Carbonate content	0.90 0.97	Poor Low strength Shrink-swell	0.00 0.87	Good	
PwA: Poinsett-----	60	Fair Low content of organic matter Water erosion Carbonate content	0.12 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.92
Waubay-----	30	Fair Water erosion Carbonate content	0.90 0.97	Poor Low strength Shrink-swell	0.00 0.87	Good	
PwB: Poinsett-----	70	Fair Low content of organic matter Water erosion Carbonate content	0.12 0.90 0.92	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.92
Waubay-----	20	Fair Water erosion Carbonate content	0.90 0.97	Poor Low strength Shrink-swell	0.00 0.87	Good	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ra: Rauville-----	85	Fair Too clayey	0.88	Poor Depth to saturated zone Low strength Shrink-swell	0.00 0.00 0.87	Poor Depth to saturated zone Too Clayey	0.00 0.86
ReA: Renshaw-----	85	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.86	Good		Poor Rock fragments Hard to reclaim Too sandy	0.00 0.08 0.14
ReB: Renshaw-----	85	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.86	Good		Poor Rock fragments Hard to reclaim Too sandy	0.00 0.08 0.14
RnC: Renshaw-----	50	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.86	Good		Poor Rock fragments Hard to reclaim Too sandy	0.00 0.08 0.14
Brandt-----	35	Fair Water erosion	0.90	Poor Low strength Shrink-swell	0.00 0.99	Poor Hard to reclaim	0.00
RsC: Renshaw-----	55	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.86	Good		Poor Rock fragments Hard to reclaim Too sandy	0.00 0.08 0.14
Sioux-----	35	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.32	Good		Poor Too sandy Rock fragments Hard to reclaim	0.00 0.00 0.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SaD: Sioux-----	50	Poor Too sandy Low content of organic matter Droughty	0.00 0.12 0.32	Good		Poor Too sandy Rock fragments  Hard to reclaim Slope	0.00 0.00  0.00 0.37
Renshaw-----	40	Fair Low content of organic matter Too sandy Droughty	0.12 0.14 0.86	Good		Poor Rock fragments  Hard to reclaim Too sandy Slope	0.00  0.08 0.14 0.37
So: Southam-----	85	Poor Too clayey  Carbonate content Water erosion	0.00  0.92 0.99	Poor Depth to saturated zone Low strength Shrink-swell	0.00  0.00 0.12	Poor Depth to saturated zone Too Clayey Salinity	0.00  0.00 0.88
Sp: Spottswood-----	85	Fair Low content of organic matter	0.12	Fair Depth to saturated zone	0.76	Poor Hard to reclaim  Depth to saturated zone	0.00  0.76
StB: Strayhoss-----	85	Fair Low content of organic matter Water erosion	0.18 0.90	Fair		Good	
To: Tonka-----	85	Poor Too clayey  Water erosion	0.00  0.90	Poor Depth to saturated zone Low strength Shrink-swell	0.00  0.00 0.46	Poor Depth to saturated zone Too Clayey	0.00  0.00

Section II  
Soil and Site Information

Construction Materials Table 2  
Hamlin County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The ratings given for the thickest layer are for the thickest layer above and excluding the bottom layer. The numbers in the value columns range from 0.00 to 0.99. The greater the value, the greater the likelihood that the bottom layer or thickest layer of the soil is a source of sand or gravel. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
VbA: Vienna-----	70	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.92 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.99
Brookings-----	20	Fair Low content of organic matter Carbonate content Too clayey Water erosion	0.50 0.97 0.98 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Too Clayey	0.98
VbB: Vienna-----	70	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.92 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.99
Brookings-----	15	Fair Low content of organic matter Carbonate content Too clayey Water erosion	0.50 0.97 0.98 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Too Clayey	0.98
VnC: Vienna-----	70	Fair Low content of organic matter Carbonate content Water erosion	0.50 0.92 0.99	Poor Low strength Shrink-swell	0.00 0.87	Fair Carbonate content	0.99
Buse-----	20	Fair Low content of organic matter Carbonate content Water erosion	0.12 0.46 0.99	Fair Low strength Shrink-swell	0.22 0.87	Fair Carbonate content	0.46



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Soil and Site Information

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Map symbol and soil name	Pct. of map unit	Potential source of reclamation material		Potential source of roadfill		Potential source of topsoil	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
W: Water (less Than 40 Acres)-----	100	Not rated		Not rated		Not rated	
Wa: Waubay-----	85	Fair Water erosion Carbonate content	0.90 0.97	Poor Low strength Shrink-swell	0.00 0.87	Good	

